

4/8/04

→

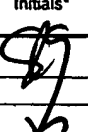
PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number			
		Filing Date	Herewith		
		First Named Inventor	Gilbert, Michel, et. al.		
		Art Unit	Unassigned		
		Examiner Name	Unassigned		
Sheet	1	of	2	Attorney Docket Number	019633-000112US

U.S. PATENT DOCUMENTS					
Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AC	AA	US-5,352,670	10-04-1994	Venot, et al.	
	AB	US-5,374,541	12-20-1994	Wong, et al.	
	AC	US-5,545,553	08-13-1996	Gotschlich	
	US-				

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	AD	WO	92/16640		10-01-1992	The Scripps Research Institute		<input type="checkbox"/>
	AE	WO	96/32491		10-17-1996	Cytel Corp.		<input type="checkbox"/>
	AF	WO	99/49051	A1	09-30-1999	National Research Council of Canada		<input type="checkbox"/>
								<input type="checkbox"/>

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
AS	AG	ASPINALL et al., "Lipopolysaccharides of Campylobacter jejuni Serotype O:19: Structures of Core Oligosaccharide Regions from the Serostrain and Two Bacterial Isolates from Patients with the Guillain-Barré Syndrome" Biochemistry, 33: 241-249 (1994b)		
	AH	ASPINALL et al., "Lipopolysaccharides of Campylobacter jejuni Serotype O:19: Antigen Chains from the Serostrain and Two Bacterial Isolates from Patients with the Guillain-Barré Syndrome" Biochemistry, 33: 250-255 (1994c)		
	AI	ASPINALL, et al. "Chemical Structures of the Core Regions of Campylobacter Jejuni Serotypes O:1, O:4, O:23, and O:36 Lipopolysaccharides," European Journal of Biochemistry, Vol. 213, No. 3, pp. 1017-1027, (May 1993)		
	AJ	ASPINALL, et al. "Lipopolysaccharides from Campylobacter Jejuni Associated with Guillain-Barré Syndrome Patients Mimic Human Gangliosides in Structure," Infection and Immunity, Vol. 62, No. 5, pp. 2122-2125, (May 1994)		
	AK	BELUNIS et al., "Biosynthesis of Endotoxin" J. Biol. Chem., 267: 9988-9997 (1992)		
AV	AL	GAUDINO et al., "A Novel and Efficient Synthesis of Neolacto Series Gangliosides 3'-nLM1 and 6'-nLM1 " J. Am. Chem. Soc., 116: 1149-1150 (1994)		

Examiner Signature	SHERIDAN SWOPE, Ph.D. PRIMARY EXAMINER	Date Considered	OCT 18 2006
-----------------------	---	--------------------	-------------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
SF 1404050 v1

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	
		Filing Date	Herewith
		First Named Inventor	Gilbert, Michel, et. al.
		Art Unit	Unassigned
		Examiner Name	Unassigned
		Attorney Docket Number	019633-000112US
Sheet	2	of	2

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
85	AM	GILBERT et al., "Cloning of the Lipooligosaccharide α-2,3-Sialyltransferase from the Bacterial Pathogens <i>Neisseria Meningitidis</i> and <i>Neisseria Gonorrhoeae</i> ," <i>Journal of Biological Chemistry</i> , Vol. 271, No. 45, pp. 28271-28276, The American Society for Biochemistry and Molecular Biology, Inc., USA, (November 8, 1996)	
	AN	GILBERT, et al., "Biosynthesis of Ganglioside Mimics in <i>Campylobacter Jejuni</i> OH4384," <i>The Journal of Biological Chemistry</i> , Vol. 275, No. 6, pp. 3896-3906, The American Society for Biochemistry and Molecular Biology, Inc., USA, (February 11, 2000)	
	AO	ITO et al., "Synthesis of Bioactive Sialosides" <i>Pure Appl. Chem.</i> , 65: 753 (1993)	
	AP	KUROKI, "Campylobacter jejuni Strains from Patients with Guillain-Barré Syndrome Belong Mostly to Penner Serogroup 19 Contain β-N-Acetylglucosamine Residues" <i>Ann. Neurol.</i> , 33: 243-247 (1993)	
	AQ	PARKHILL, et al. "The Genome Sequence of the Food-Borne Pathogen <i>Campylobacter Jejuni</i> Reveals Hypervariable Sequences," <i>Nature</i> , Vol. 403, pp. 665-668, (February 10, 2000)	
	AR	PENNER, et al., "Diversity of Lipopolysaccharide Structures in <i>Campylobacter Jejuni</i> ," <i>The Journal of Infectious Diseases</i> , Vol. 176, No. 2, pp. S135-S138, (December 1997)	
	AS	PRENDERGAST, et al., "Lipopolysaccharides from <i>Campylobacter Jejuni</i> O:41 Strains Associated with Guillain-Barré Syndrome Exhibit Mimicry of GM1 Ganglioside," <i>Infection and Immunity</i> , Vol. 68, No. 8, pp. 3649-3677, (August 1998)	
	AT	PRESTON, et al., "The Lipooligosaccharides of Pathogenic Gram-Negative Bacteria," <i>Critical Reviews in Microbiology</i> , Vol. 22, No. 3, pp. 139-180, (1996)	
	AU	SABESAN et al., "Combined Chemical and Enzymatic Synthesis of Sialyloligosaccharides and Characterization by 500-MHz 1H and C NMR Spectroscopy" <i>J. Am. Chem. Soc.</i> , 108: 2068-2080 (1986)	
	AV	SALLOWAY, et al., "Miller-Fisher Syndrome Associated with <i>Campylobacter Jejuni</i> Bearing Lipopolysaccharide Molecules that Mimic Human Ganglioside GD3," <i>Infection and Immunity</i> , Vol. 64, No. 8, pp. 2945-2949, (August 1996)	
AW	WAKARCHUK et al., "Functional Relationships of the Genetic Locus Encoding the Glycosyltransferase Enzymes Involved in Expression of the Lacto-N-neotetraose Terminal Lipopolysaccharide Structure in <i>Neisseria meningitidis</i> " <i>J. Biol. Chem.</i> , 271: 19166-19173 (1996)		
AX	WOOD, et al., "Cloning, Mutation and Distribution of a Putative Lipopolysaccharide Biosynthesis Locus in <i>Campylobacter Jejuni</i> ," <i>Microbiology</i> , Vol. 145, No. 2, pp. 379-388, (February 1999)		

Examiner Signature	SHERIDAN SWOPE, PH.D. PRIMARY EXAMINER	Date Considered	OCT 18 2006
--------------------	---	-----------------	-------------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
SF 1404050 v1

12/10/04

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/821,604		
		Filing Date	April 8, 2004		
		First Named Inventor	Gilbert, Michel		
		Art Unit			
		Examiner Name			
Sheet	1	of	1	Attorney Docket Number	019633-000129US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, database, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A1	PARKHILL, J., ET AL., "The genome sequence of the food-borne pathogen <i>Campylobacter jejuni</i> reveals hypervariable sequences," <i>Nature</i> , 10 Feb. 2000, 403:665-668.	
	A2	Accession No. AL111168	
	A3	http://web.archive.org/web/*/http://www.sanger.ac.uk/Projects/C_jejuni/ Search Results for Jan 01, 1996 - Apr 07, 2004	
	A4		
	A5		
	A6		
	A7		
	A8		
	A9		
	A10		
	A11		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO		Complete if Known	
		Application Number	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	Herewith
		First Named Inventor	Gilbert, Michel, et al.
		Art Unit	Unassigned
		Examiner Name	Unassigned
Sheet	1	of	2
		Attorney Docket Number	019633-006112US

U.S. PATENT DOCUMENTS					
Examiner	Cite No. ¹	Document Number Number (Kind Code) ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AS	AA	US-6,352,670	10-04-1994	Yeh, et al.	
	AB	US-5,374,541	12-20-1994	Wong, et al.	
	AC	US-5,545,553	08-13-1996	Stützli	
		US-			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
AS	AD	WO	92/18540		01-1992	The Scripps Research Institute		<input type="checkbox"/>
	AE	WO	96/32491		17-1996	Cytel Corp.		<input type="checkbox"/>
	AF	WO	98/49051	A1	09-30-1999	National Research Council of Canada		<input type="checkbox"/>
								<input type="checkbox"/>

OTHER PRIOR ART - NON-PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
AS	AG	ASPINALL et al., "Lipopolysaccharides of Campylobacter jejuni Serotype O:19: Structures of Core Oligosaccharide Regions from the Serostrain and Two Bacterial Isolates from Patients with the Guillain-Barré Syndrome". Biochemistry, 33: 241-249 (1994c)		
	AH	ASPINALL et al., "Lipopolysaccharides of Campylobacter jejuni Serotype O:19: Antigen Chains from the Serostrain and Two Bacterial Isolates from Patients with the Guillain-Barré Syndrome". Biochemistry, 33: 250-255 (1994c)		
	AI	ASPINALL et al., "Changes in Structures of the Core Regions of Campylobacter jejuni Serotypes O:1, O:4, O:23, and O:36 Lipopolysaccharides." European Journal of Biochemistry, Vol. 213, No. 3, pp. 1017-1027, (May 1993)		
	AJ	ASPINALL et al., "Lipopolysaccharides from Campylobacter jejuni Associated with Guillain-Barré Syndrome Patients Mimic Human Gangliosides in Structure." Infection and Immunity, Vol. 62, No. 5, pp. 2122-2125, (May 1994)		
	AK	BELUNIS et al., "Biosynthesis of Endotoxin". J. Biol. Chem., 267: 9988-9987 (1992)		
✓	AL	GAUDINO et al., "A Novel and Efficient Synthesis of Neolacto Series Gangliosides 3'-nLM1 and 6'-nLM1". J. Am. Chem. Soc., 116: 1149-1150 (1994)		

Examiner Signature	<i>Swope</i>	Date Considered	1/16/04
-----------------------	--------------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
SF 1404050 v1

BEST AVAILABLE COPY

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

2

of

2

Complete If Known

Application Number	
Filing Date	Herewith
First Named Inventor	Gilbert, Michel, et. al.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	019633-00012US

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CS	AM	GILBERT et al., "Cloning of the Lipopolysaccharide α-2,3-Sialyltransferase from the Bacterial Pathogens <i>Neisseria meningitidis</i> and <i>Neisseria gonorrhoeae</i> ," <i>Journal of Biological Chemistry</i> , Vol. 271, No. 45, pp. 28271-28276, The American Society for Biochemistry and Molecular Biology, Inc., USA, (November 8, 1998)	
	AN	GILBERT, et al., "Biosynthesis of Ganglioside Mimics in <i>Campylobacter jejuni</i> O:H4384," <i>The Journal of Biological Chemistry</i> , Vol. 275, No. 6, pp. 3898-3906, The American Society for Biochemistry and Molecular Biology, Inc., USA, (February 11, 2000)	
	AO	ITO et al., "Synthesis of Bioactive Sialosides" <i>Pure Appl. Chem.</i> , 65: 793 (1993)	
	AP	KUROKI, "Campylobacter jejuni Strains from Patients with Guillain-Barre Syndrome Belong Mostly to Penner Serogroup 19 Contain β-N-Acetylglucosamine Residues" <i>Ann. Neurol.</i> , 33: 243-247 (1993)	
	AQ	PARQUILL, et al. "The Genome Sequence of the Food-Borne Pathogen <i>Campylobacter jejuni</i> Reveals Hypervariable Sequences," <i>Nature</i> , Vol. 401, pp. 684-688, (February 10, 2000)	
	AR	PENNER, et al., "Diversity of Lipopolysaccharide Structures in <i>Campylobacter jejuni</i> ," <i>The Journal of Infectious Diseases</i> , Vol. 176, No. 2, pp. S135-S138, (December 1997)	
	AS	PRENDERGAST, et al., "Lipopolysaccharides from <i>Campylobacter jejuni</i> O:41 Strains Associated with Guillain-Barre Syndrome Exhibit Mimicry of GM1 Ganglioside," <i>Infection and Immunity</i> , Vol. 68, No. 8, pp. 3649-3677, (August 1998)	
	AT	PRESTON, et al., "The Lipopolysaccharides of Pathogenic Gram-Negative Bacteria," <i>Critical Reviews in Microbiology</i> , Vol. 22, No. 3, pp. 139-169, (1996)	
	AU	SABESAN et al., "Combined Chemical and Enzymatic Synthesis of Sialyloligosaccharides and Characterization by 500-MHz ¹ H and C ¹³ NMR Spectroscopy" <i>J. Am. Chem. Soc.</i> , 108: 2068-2080 (1986)	
	AV	SALLOWAY, et al., "Miller-Fisher Syndrome Associated with <i>Campylobacter jejuni</i> Bearing Lipopolysaccharide Molecules that Mimic Human Ganglioside GD3," <i>Infection and Immunity</i> , Vol. 64, No. 8, pp. 2945-2949, (August 1996)	
	AW	WAKARCHUK et al., "Functional Relationships of the Genetic Locus Encoding the Glycosyltransferase Enzymes Involved in Expression of the Lacto-N-neotetraose Terminal Lipopolysaccharide Structure in <i>Neisseria meningitidis</i> " <i>J. Biol. Chem.</i> , 271: 19165-19173 (1996)	
✓	AX	WOOD, et al., "Cloning, Mutation and Distribution of a Putative Lipopolysaccharide Biosynthesis Locus in <i>Campylobacter jejuni</i> " <i>Microbiology</i> , Vol. 145, No. 2, pp. 379-388, (February 1999)	

SS 1/16/04
Biological

Examiner Signature	<i>[Signature]</i>	Date Considered	1/16/04
--------------------	--------------------	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
SF 1404050 v1

BEST AVAILABLE COPY

Application Number	10/303,128
Filing Date	November 21, 2002
First Named Inventor	Gilbert, Michel, et. al.
Art Unit	1652
Examiner Name	Unassigned
Attorney Docket Number	019633-000112US

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	SHERIDAN SWOPE, PH.D.	Date Considered	OCT 18 2006
-----------------------	-----------------------	--------------------	-------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

PTO/SB/01B (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary).

Sheet	1	of	1
-------	---	----	---

Compl to If Kn wn

Application Number	10/303,128
Filing Date	November 21, 2002
First Named Inventor	Gilbert, Michel, et. al.
Art Unit	1652
Examiner Name	Unassigned
Attorney Docket Number	019833-000112US

FOREIGN PATENT DOCUMENTS

[illegible]

RECEIVED
MAR 07 2003
TECH CENTER 1600/2900

**Examiner
Signature**

Date Considered

11604

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**